

KRCPF-H · KRCPFD-H
CP Hardened Racks

Circular Pitch 5, 10

New! Hardened Racks to be widely used!



Specifications	
Precision grade	KHK R 001 grade 5 *
Gear teeth	Standard full depth
Pressure angle	20°
Material	SCM440
Heat treatment	Normalizing, tooth surfaces induction hardened
Tooth hardness	50 ~ 60HRC

* The precision grade of J Series products is equivalent to the value shown in the table.



RF

* Increased the surface durability by 50% over KRCPF Racks! For compact design with high strength.

Catalog No.	Pitch mm (Module)	No. of teeth	Shape	Total length				Allowable force (N)		Allowable force (kgf)		Weight (kg)
				A	B	C	D	Bending strength	Surface durability	Bending strength	Surface durability	
KRCPF5-1000H	CP5 (1.5915)	200	RF	1000	15	20	18.41	3330	1850	339	189	2.17
KRCPF10-1000H	CP10 (3.1831)	100	RF	1000	30	35	31.82	13300	7710	1360	786	7.49

Catalog No.	Pitch mm (Module)	No. of teeth	Shape	Total length				Mounting hole dimensions			No. of mounting holes	Mounting screw size
				A	B	C	D	E	F	G		
KRCPFD5-1000HJ	CP5 (1.5915)	200	RD	1000	15	20	18.41	8	50	180	6	M5
KRCPFD10-1000HJ	CP10 (3.1831)	100	RD	1000	30	35	31.82	14				M10

SRCPF-H · SRCPFD-H
CP Hardened Racks

Circular Pitch 5, 10, 15, 20

New! Hardened Racks to be widely used!



Specifications	
Precision grade	KHK R 001 grade 5 *
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surfaces induction hardened
Tooth hardness	50 ~ 60HRC *

* The precision grade of J Series products is equivalent to the value shown in the table.



RF

* Standard tooth surface induction hardening is applied resulting in reasonably priced rack which have their surface durability 2 times stronger than SRCPF racks!

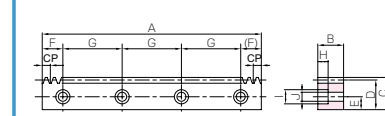
Catalog No.	Pitch mm (Module)	No. of teeth	Shape	Total length				Allowable force (N)		Allowable force (kgf)		Weight (kg)
				A	B	C	D	Bending strength	Surface durability	Bending strength	Surface durability	
SRCPF5-1000H	CP5 (1.5915)	200	RF	1000	15	20	18.41	2080	1200	212	122	2.17
SRCPF10-1000H	CP10 (3.1831)	100	RF	1000	30	35	31.82	8320	4980	848	508	7.49
SRCPF15-1000H	CP15 (4.7746)	67	RF	1005	50	50	45.23	20800	12400	2120	1260	17.8
SRCPF20-1000H	CP20 (6.3662)	50	RF	1000	60	60	53.63	33300	20800	3390	2120	25.3

Catalog No.	Pitch mm (Module)	No. of teeth	Shape	Total length				Mounting hole dimensions			No. of mounting holes	Mounting screw size
				A	B	C	D	E	F	G		
SRCPFD5-1000HJ	CP5 (1.5915)	200	RD	1000	15	20	18.41	8	50	180	6	M5
SRCPFD10-1000HJ	CP10 (3.1831)	100	RD	1000	30	35	31.82	14	50	180	6	M10
SRCPFD15-1000HJ	CP15 (4.7746)	67	RD	1005	50	50	45.23	20	62.5	220	5	M14
SRCPFD20-1000HJ	CP20 (6.3662)	50	RD	1000	60	60	53.63	23	60	220	5	M16

KRCPF-H · KRCPFD-H

CP Hardened Racks

J Series



RD



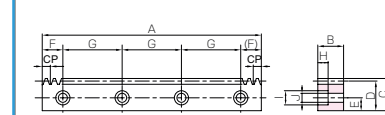
- [Caution on Product Characteristics]
- The allowable forces shown in the table are the calculated values according to the assumed usage conditions. Please see Page 227 for more details.
 - Backlash of racks vary depending on mating pinions. Please calculate the backlash in accordance with the backlash of the mating pinion and values in the table "Backlash of Rack Tooth (Amount of Tooth-Thinning)" (Page 191).
- [Caution on Secondary Operations]
- Please read "Caution on Performing Secondary Operations" (Page 228) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.
 - Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 mm to 3 mm). Please use wire EDM or other carbide tools to modify the length.
- [Caution on J series]
- As available-on-request products, requires a lead-time for shipping within **2 working-days (excludes the day ordered), after placing an order**. Please allow additional shipping time to get to your local distributor.
 - Number of products we can process for one order is **1 to 20 units**. For quantities of 21 or more pieces, we need to quote price and lead time.
 - No black oxide is re-applied after adding secondary operation of mounting holes.

Counterbore dimensions			Allowable force (N)		Allowable force (kgf)		Weight (kg)	Catalog No.
H	I	J	Bending strength	Surface durability	Bending strength	Surface durability		
6	10	6	3330	1850	339	189	2.13	KRCPFD5-1000HJ
10.8	17.5	11	13300	7710	1360	786	7.29	KRCPFD10-1000HJ

SRCPF-H · SRCPFD-H

CP Hardened Racks

J Series



RD



- [Caution on Product Characteristics]
- The allowable forces shown in the table are the calculated values according to the assumed usage conditions. Please see Page 227 for more details.
 - Backlash of racks vary depending on mating pinions. Please calculate the backlash in accordance with the backlash of the mating pinion and values in the table "Backlash of Rack Tooth (Amount of Tooth-Thinning)" (Page 191).
- [Caution on Secondary Operations]
- Please read "Caution on Performing Secondary Operations" (Page 228) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.
 - Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2mm to 3 mm). Please use wire EDM or other carbide tools to modify the length.
- [Caution on J series]
- As available-on-request products, requires a lead-time for shipping within **2 working-days (excludes the day ordered), after placing an order**. Please allow additional shipping time to get to your local distributor.
 - Number of products we can process for one order is **1 to 20 units**. For quantities of 21 or more pieces, we need to quote price and lead time.
 - No black oxide is re-applied after adding secondary operation of mounting holes.

Counterbore dimensions			Allowable force (N)		Allowable force (kgf)		Weight (kg)	Catalog No.
H	I	J	Bending strength	Surface durability	Bending strength	Surface durability		
6	10	6	2080	1200	212	122	2.13	SRCPFD5-1000HJ
10.8	17.5	11	8320	4980	848	508	7.29	SRCPFD10-1000HJ
15.2	23	16	20800	12400	2120	1260	17.3	SRCPFD15-1000HJ
17.5	26	18	33300	20800	3390	2120	24.5	SRCPFD20-1000HJ